

FIG. 1A

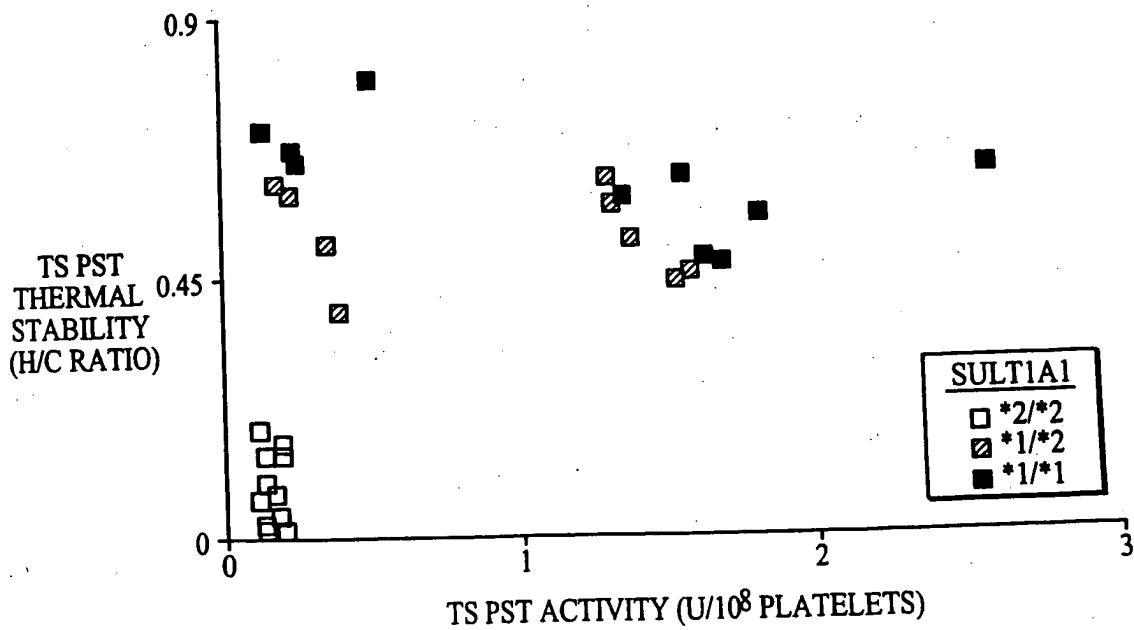


FIG. 1B

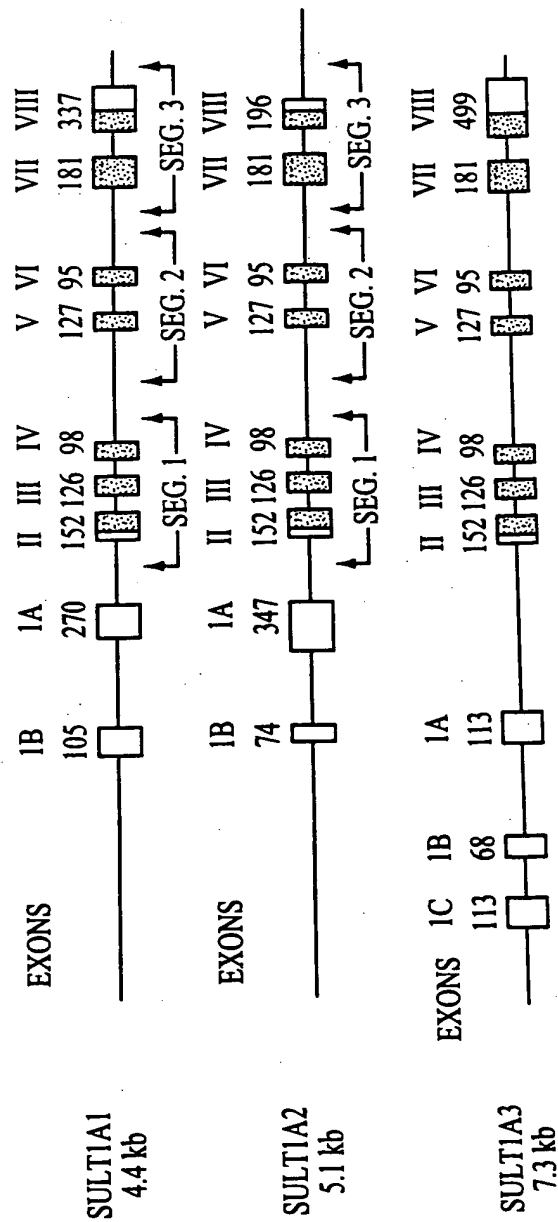


FIG. 2

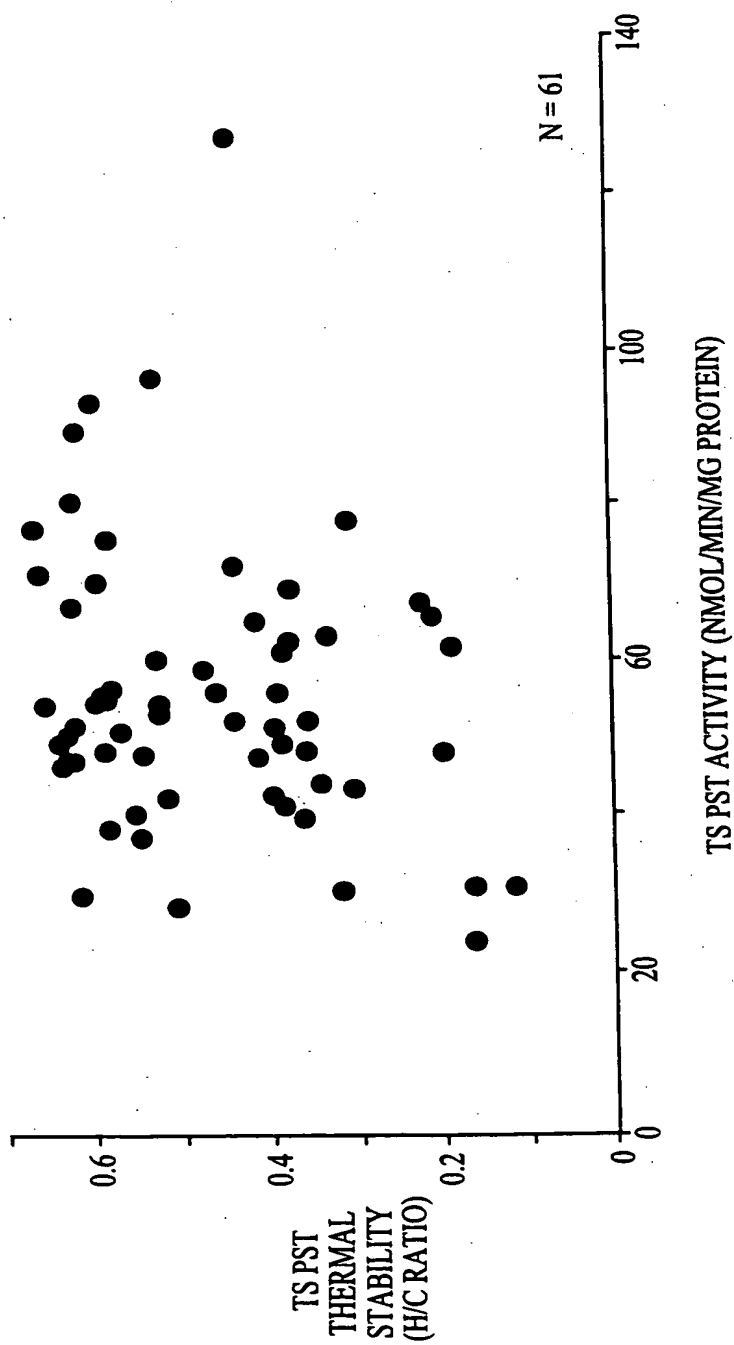


FIG. 3

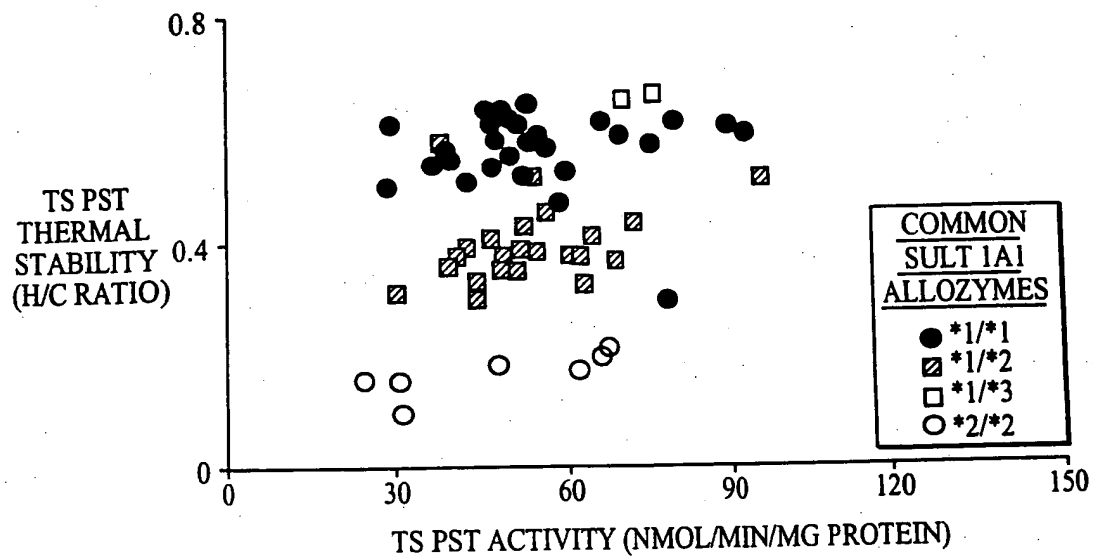


FIG. 4A

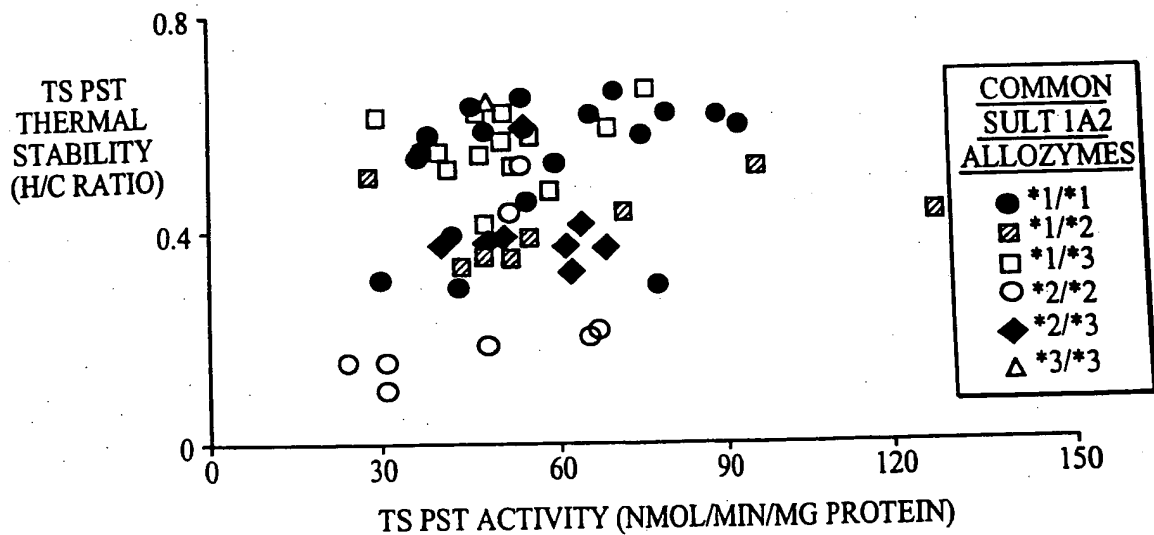


FIG. 4B

101 ttgtgtcag ctgctctcc ctctgtct cttaactgco tgtgtgtgg gaaaggtatga aggggggccc ttgtgtgccc ccaacccctgg ctgttggcta
 201 agagcccaag tgaatctgoot gtgagaggag ttcootcoagg aagaacacag ggaacttotg coactagagg gcaatgccc ttgtgtgagc cagtooooo
 301 gcccagcct ggtccagctt tgggaagagg gtgcccagtt gtgaatoca ggcgggggga gccgtgtcct gatottgta ttoagggctg agctggagg
 401 ggcgttgtga tgcctgactc tgtctctctc tagagaagt gactgggaat tgaagaagt gactgggctt tggcccagc ctccctacc gtoactgctt tgggtgactg tgaaggatga
 501 gcacggggga aatagtga aatagtgaac tggatagccc tgtgtgagct cagtgtccct aatccctcc gtoactgctt tgggtgagc gtoactgctt tgggtgagc
 601 cctcgtttct gaagccacac tgaagccgtt toaagcttt ttttgtttt ttttgtttt ttttgtttt ttttgtttt ttttgtttt ttttgtttt
 701 gacatgacc toagccgctt ogcctcctgg gttcaagga ttctctgccc toagccctcc aagtagtggt gttgatotgco tgcctggcc ccccaagtg
 801 tcttgptca cccaacctc cccaacctc cccaacctc cccaacctc cccaacctc cccaacctc cccaacctc cccaacctc cccaacctc
 901 aatttttat ttttagtaga gacaaggttt ctcaatgttg gtoaggtgg totaactc cactttcc agtagtggt gttgatotgco tgcctggcc ccccaagtg
 1001 ctgggattac agagtgaag caccgtgcca toaagaagagg gaaagtgggg gtctctaga gactgtctca tcaagaccgt gttgatotgco tgcctggcc ccccaagtg
 1101 gaagatttcc tgcagagtaa agggatocao toaagaagagg gaaagtgggg gtctctaga gactgtctca tcaagaccgt gttgatotgco tgcctggcc ccccaagtg
 1201 gggcttctc aactaaagag ggttatatto atgagagtc caggaagagg taaagattc tcaagaccgt gttgatotgco tgcctggcc ccccaagtg
 1301 ttcttgagc cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga
 1401 tgtgtctgtt tggctgtggc cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga cgtcttgga
 1501 atgtgaact gctgctggg aagctctag toaagggaao ctctgaggg ttgtgtggga caggggtgga gctgtagcc gttgatotgco tgcctggcc ccccaagtg
 1601 ttgttaactag agtgaatac aagctctag toaagggaao ctctgaggg ttgtgtggga caggggtgga gctgtagcc gttgatotgco tgcctggcc ccccaagtg
 1701 ggaattctca tggggaacaga ggaaggagg ggggtccatg gcoctagcat atgagagcc ttgtgtggga gctgtagcc gttgatotgco tgcctggcc ccccaagtg
 1801 actccacot gtcgcttgo ctctgaato aogcatttot tgaagctott tgaagctott tgaagctott tgaagctott tgaagctott tgaagctott
 1901 tgaacttga olttaagtg agataaga acgagagga acgagagga acgagagga acgagagga acgagagga acgagagga acgagagga acgagagga
 2001 ottgtcttg gactcctt oaaacccagg actccagg actccagg actccagg actccagg actccagg actccagg actccagg actccagg actccagg
 2101 gaggcatga gctgggctg actccagg actccagg actccagg actccagg actccagg actccagg actccagg actccagg actccagg
 2201 actctgcca cacatccc totagactgg ccttggtgto agagootgga gttgatggg ttgtcttct tgtcttct tgtcttct tgtcttct
 2301 cadcttoag actggcctgg agccagagg taggtgact ttccaggcc ttgtatccc agttatccc agttatccc agttatccc agttatccc
 2401 attagagaga gttgtctgt tgggtgactg ggggtgga gttcaagggg gttcaagggg gttcaagggg gttcaagggg gttcaagggg gttcaagggg
 2501 cagaaaaaa aactacaaa aactacaaa aactacaaa aactacaaa aactacaaa aactacaaa aactacaaa aactacaaa aactacaaa
 tttaaggttg totcagctg gaactaag ggggttatg gagaagctcc ccaacccccc accccccc ttctctggg aggaactat agtccagcc

FIG. 5A

2601	cgggttccaa atccctccaa cagtgga	EXON IB
2701	AGAGGGCAG AGGCAGGTT CCAAGAGCT	
2801	aagctgagc cctgggac cctgggac	
2901	tttttcccg ggggagggca ggtcttg	
3001	tgccacagc totggagtag ataggact	
3101	atgtgaccc aggttggtct ccaactc	
3201	catcagagt ttgttcat coacagag	
3301	agccaggtg atccagggc tggctggt	
3401	GTCCCGCAG GAATGGTGA GACAAAGGC	
3501	CTTCACACAC CCTGATATCT GGGCTT	
3601	TGAAGTga ggcagggctg gggaaoc	
3701	otoagctcc ctaggctoa glgaott	
3801	cgagGAACA TGGAGCTGAT CCAGGAC	
3901	TGCAGAGCTT CCAGGCCCGG CCTGAT	
4001	caccttgpc agcgaggtg tgcctcag	
4101	AGGTGGTGA CCTGGAGAAG TGTACCG	
4201	tggtgggtg aagggagtg gaggaaga	
4301	CGGCCCCAG ACTCTGAAG ACACACCT	
4401	coataatcc agcatttg gagggtgag	
4501	aatacagaa ttagecgggt gtggtg	
4601	ggtgagccag agatccacc attgatt	
4701	tggaacctgt ggtggctc atototata	
4801	ggggaacttc atototata aaaaat	
4901	tgaacctggg aggtcaagt tgcagt	
5001	gagattgtot caataataa ataaat	
5101	tgtgaatcca gggagagggt ootg	
5201	ggggaactgo tgcctotbgo totgat	
5301	ggtgggggtg ggtacagggc tggg	
5401	gaccaggcag gactttggt totgag	

FIG. 5B

FIG. 5C

-3729 ctotccctoo ttgtctctta cctgcctgct gctgggaa ggtgaagcg gggpoottgt gttgccccaa cctggctgtg tggctaagag occacgtgat
 -3629 ctgcctgtga gaggagttoo ttccggaga aocggggcag ctctgpcoc tagaggpca atgcotago tgaagtgcagt ccccgggccc cagocctggtc
 -3529 cagcttctgg aagaggggtgo coagtgtgco aatcagggco gggagagcgg tgcctgato ttggtattoa gggctagacc tggagggggg ttgtgatgoc
 -3429 tgaototgtc tototototg gcccctatgo ttggtatgctg tagagggtca ctgcttggg tgaotgato tggctgtgat gggatgagcag gggggaaata
 -3329 gtggaagact cggaaattaga agactgagt gggcttggg cccagcctoc ctacccact actggggggt taggggaggt cctgctctg gacctgcctg gaccaacctt gttctotgcag
 -3229 gacaotgga tagocctgct ggaotcagt gtccctaato cctocagat actggggggt taggggaggt cctgctctg gacctgcctg gacctgcctg gacctgcctg
 -3129 cctgttoca cgttctctgt tgttttttt ttttttgga gacaggttt cactcttgtt gcccaggtg gacaggtg gacaggtg gacaggtg gacaggtg gacaggtg
 -3029 aaototgco tccgggttc aagpattot cctgcctcag cctccaggt agtggggtt aaggggtgtt gcccaggtt gcccaggtt gcccaggtt gcccaggtt
 -2929 agtagagaca aggttctctc atgttggtca ggtggtoto aaotccga ctccaggtga tctgctgoc tgggctccc aaagtctg gattacagga
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 -2729 gactaaagg actoaotgaa gaagaggaa gtgggggtcc tgaagaggc ttgocaggc ttgocaggc ttgocaggc ttgocaggc ttgocaggc
 -2629 aaagagggtt atattoatga aggttccatg ttactgattg taactgattg taactgattg taactgattg taactgattg taactgattg
 -2529 ttgpcactgg tgggtgtacg gtttccatg ttactgattg taactgattg taactgattg taactgattg taactgattg taactgattg
 -2429 cgaagccagc ttggtccotc tcttattttt caggactta ttggcccttg gaoatgag atatttcaa gacaggtga aaagtctg gattacagga
 -2329 octgggattt totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct
 -2229 caatacaag totagtcac gaggccctcc tgaaggttgo tgaaggttgo tgaaggttgo tgaaggttgo tgaaggttgo tgaaggttgo
 -2129 caoagaggag ggaaggagg cctgtggccc tagaggggga gaggccctcc tctgctgg aaatcccat gctcagtttt ccccggttgo ctoagagtc
 -2029 acgcaaacct ggaagggtt ggaagactca ccttactca gttgttctt tacctgtct cctccctggt tgacctgga cttaaatag tgaggacaaa
 -1929 gaacgaggag ggtgggggga tgaactctt ccaagggggg ctgtggttca cctccctggt tgacctgga cttaaatag tgaggacaaa
 -1829 tggaaagaaa agtaacctgpc aggggtgtg gttcttctag gatcttctat ggtgttctg taggttccc agggagccat gaggctgggg ctggctccca
 -1729 gggcaatggg aotgcagtgt ccttctctt totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct totgtgtct
 -1629 ctggccttgt ggtcagagcc tggagtgcct gggctgtgg gttgcaotgg ggcaggacc ctggacactt caagctggg ctggagcccag
 -1529 caggtaggtg aacttccag ggcctgccta tccagcttt ctoctccat ctoctccat ctoctccat ctoctccat ctoctccat
 -1429 toaggggag gtoaggagcc cagtgcagc ttggagagc tottgaagc aggggggtga tagagaagct cccccaoooo oaaocctaco
 -1329 aacccaaacc oagtcgtggc ttggagagc tottgaagc aggggggtga tagagaagct cccccaoooo oaaocctaco

FIG. 6A

-1229	cotttoctco	ggaagcaaat	ataagtcoag	ccccggctcc	agatccctcc	caactgac	taagaaccc	tcagacaga	caacacccct	GCATTCCCCA	EXON IB	
-1129	CACAAACCC	ACACTCAGCC	ACTGCGGGCG	AGGAGGGCAC	GAGGCCAGGT	TCCCAAGASC	TCAGTgagt	gacacacgg	aatggcccag	gaogccctoa		
-1029	ccctgptcag	cttgtgptc	caaatctoa	gaagcaggg	ototgttat	ctotgpcctc	tcoccatgga	tgggactctg	ggcaatgag	ctttgaattc		
-929	gaatcccoct	cocttcoctt	ttttttttcc	ggggaggaca	ggtcttgptg	tsaocaggc	tggaatgctg	tggaatgctg	ggcaatgag	ctttgaattc		
-829	ctgggptcaa	gtgattctcc	tgctctcagta	gotaggacta	cgagccctca	ccatccctgc	tggaatgctg	tggaatgctg	ggcaatgag	ctttgaattc		
-729	tggygtotto	caatgptgco	cagattggtc	tocaaattot	ggpotaagcc	tcocctagggt	ctgggattac	aggtgggagc	caacctggcc	aggtatccctc		
-629	ttttgptgag	tcattcacagt	tttgptcatt	cccaaatcag	ggtotggccc	ccaatccacag	ctcagtttgt	caatgggctg	TTTGTCTGG	AACCCAGATG	EXON IA	
-529	GACTGTGACC	GGGCAAGTGG	ATCACAGGCC	TGGCCAGCCT	AGGAGTTGCC	ACATGTGAGG	GGCCGAGGGG	CTCAAGGAGG	GGAAATCGG	GGAGAGGAGC		
-429	CTACTGGGTTG	GAGCTGGGG	GTCCAGAGAG	GAAATGTTGA	GACAAAGGGC	GCTGGCTGGC	AGGAGAGACAG	CACAGGAAGG	TCCTAGAGGT	TCCTCAGTGC		
-329	AGCTGGACTC	TCCTGGAGAC	CTTCACACAC	CTTGACATCT	GGGCCCCCTT	CCACGAGGGT	GGTTTCACTG	GTCTGCACCA	TGGCCAGGGC	CCTGGGATTT		
-229	TGAACABCTC	CGCAGGTGAA	TGAAGTGA	ggccagggtg	gggaacccac	acattagac	ccgactgggt	tttcagcccc	agcccgcca	ctgactggcc		
-129	ttgtgagtgo	ggggaagtoa	otcaacccctc	ctaggpctca	gtgacttccc	tggaaggaag	aatcccaott	tcttgctgtt	gtgactgtg	taaggggaacg		
-29	ggcctggptc	tggtccctga	gcagGAACA	TGGAGCTGAT	CCAGGACATC	TCTGCCCCGC	CACCTGAGTA	CGTGAAGGGG	GTCCCGCTCA	TCAAGTACTT	EXON II	
72	TGCAGAGGCA	CTGGGCCCC	TGCAGAGCTT	CCAGGCCCCG	CCTGATGACC	TGCTCATCAG	CACCTACCCC	AACTCCGta	ggtgaggag	ggacacccac		
172	A E A L G P L Q S F Q A R P D D L L I S T Y P K S G	ctctccacag	tggaagtccc	caocttggcc	agcgaggtca	tgctcaoctc	agctgptca	ccctccatct	ccactg	GCACCA	CCTGGGTGAG	EXON III
272	CCAGATTCTG	GACATGATCT	ACCAGGGCGG	TGACCTGGA	AACTGTACCC	GAGCTCCCAT	CTTCATGCGG	GTGCCCTTCC	TTGAGTTCAA	AGTCCAGGG		
372	Q I L D M I Y Q G G D L E K C H R A P I F M R Y P F L E F K Y P G	ATTCCCTCAG	gtgtgtgtgt	cctgggtgca	aggggagtg	gggtggggt	tgagtcacc	agacttccc	tgacccactg	ctcagggatg	EXON IV	
472	E T L K N T P A P R L L K T H L P L A L L P Q T L L D Q K Y K	GAGACTCTGA	AAAACACACC	AGCCCCACGA	CTCCTGAGA	CACAGCTGCC	CCTGGCTCTG	CTCCCCCAGA	CTCTGTGGA	TCAGAAGGTC	AACTGGAGC	FIG 6B

FIG. 6B

572	tgggcaoaagt	ggttcacacc	cgaaatocaa	gtaotttggg	aggttgaggt	gggaagatoc	cttgaagoca	gaagtccag	ataagtctct	tcacacacac
672	aaacttagct	gtgaatagt	gtgtgtgoot	gtaataccag	ttactoaagg	gggttgaggt	ggaggtatcat	otgaagctag	gagtttaagg	ttaoagcag
772	ctatgatoc	acaaagtgaac	tcaggttgag	gtgacagaga	aaacatgtct	caacacacga	tgaaatagaa	gagtgtccca	ccagtgcggt	ggctcacacc
872	tgtaattcca	gcaottgaa	aggttgagga	aggttgatca	ccatgagacta	ggagtttag	ataagctgg	ccaacatggc	aaacacccat	ctotactaaa
972	aatacaaaaa	aattagccgg	gcatggtggg	agggcatctgt	aatccagct	acttggggg	ctgaagcag	agaattgctt	gaagctggga	ggcagaggtt
1072	gtagtoagca	gagacotca	cattgcaacg	cagctggga	aaacagaga	aaactotgtc	tcacacacac	aaagacacg	gaaggtggca	gaaggtggca
1172	gggggctggg	cotgttgttg	ctcacgctg	taatacagc	actttggg	gtgaaggtg	ggagatcacc	caaggttag	agtttagat	agctctggc
1272	aaactggaga	aacccgtct	ctaataaaa	tacacacac	agcagcgt	tggggcaggg	ggcagtaato	ccagctactc	gggaggtgca	ggaagggaga
1372	tagcttgca	ctgggagggg	gtggttgag	tgagcagga	ttgtgcaat	gtaotcagc	ctgggagaca	caacagaca	ttgttcaaa	aaacacacat
1472	aaatatatta	aaagtttgc	acotgggtg	gtcaacgtg	gtaatgcag	cattttggga	ggcaagatg	gggtgaacgg	ttggaacgg	ttggttcaaa
1572	caagccacag	aaacatgggg	agactocac	ttatataag	atgcaaatca	tcagcagggc	atggtggcat	agcgtatag	tccacgtac	gagttcaagt
1672	aaagttggag	gattgttga	gocctggag	tcacgcttg	agtgagctat	ttctaactca	gtgaactoca	acotgggcaa	caggacacaa	gaaagcccaa
1772	ggtctttttt	ctcttttct	tttttttga	gacotagat	ccccccttc	aaaaacac	aaacacac	aaagacac	aaagacac	aaagacac
1872	ggaatgtga	tcaggggaag	gagggcccg	ctacgccc	ctttgtct	ctctcttg	gaggtggag	gaggtggag	gaggtggag	gaggtggag
1972	cgggggggac	gtctgctct	ttgtctct	gtacacac	atgacatct	tcgggtgga	ccaaagag	gaggtggag	gaggtggag	gaggtggag
2072	atttggtggt	ggtgggaaca	tgctgtgtg	agcatgct	gtccagat	gggggtgga	gaggtggag	gaggtggag	gaggtggag	gaggtggag
2172	cagggaacag	gcaggacttt	ggcttttgag	cagggttcag	atcctgact	ggcctaact	gtgacacac	agtcacac	agtcacac	agtcacac
2272	ctctctct	tgcaacaca	agagatgag	tggtgggg	caggctgtg	gggtgtgtg	gtggtgtg	gtggtgtg	gtggtgtg	gtggtgtg
2372	CCGCAACGC	AAAGGATGTG	GGGTTTCT	ACTACCACCT	CTACCACATG	GCCAAAGTGT	ACCTCACCC	TGGGACCTGG	GAAAGCTTCC	TGGAGAGTTT
2472	R N A	K D Y	A Y S	Y H F	Y H M	A K Y	Y P H	P G T	W E S	F L E K F
2572	CATGGCTGGA	GAAGTGGG	ttgatggag	gaaggaagt	gtggaagca	gggtgggtg	gtacacac	cagcaaccc	gtgtggcag	ccctggcag
2672	M A G	E Y								

EXON V

EXON VI

FIG. 6C

```

1  acctctgcct cctgggtcca agcaatcctc cttcctcacc ctccagagta gctgggatta
61  caccgcgcctg ccaccgcgcc tggcctaatt tttgtatttt tagtagagat ggggggtttcc
121 aaccatgttg gccaggctgg tctccaaact cctgacctca ggtgacctg cccacctaaag
181 cctcccaaaa tgctgggtatt acaggcatga gccaccgtgc ccggcctaaa taattaataa
241 aataatggac gatgggtgcc ttctactgag cttccggtaa ttgtgagtga gtagaggact
301 tgccttgagg acattcagtg acctgctggg tgttgctgag ctgtgaggaa gttcaggctc
361 ggctgcagtg gtgaggctgt gactcaatca atcactgctg atgctccag gacctgcacc
421 agcttagtcc taggggcaag gattttaact gtccacctca gtctcttcac ttgtaagatg
481 caaataacag tcacccttgc ctcatgggat ggagctgtgt aatgcccgc aacagtgcctg
541 ctgcatagag ggggtgctgc cagctgcctc tccctccttg tctcttaact gcctgctgcc
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661 atgtgatctg cctggcagag gagtttcttc aggaagaacc agggcagctt ctgcccctag
721 agggccaatg ccttctgtga gtgcagctcc ctggcccag cctgggtccac ctctgggaag
781 agggtgccca gttgtgcaat ccaggccag gcagctgagc cctcatctca gcatgcaggg
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901 gtagctgtga gaagtcactg ctttggggag acctgatctg gctgtgccag atggacactg
961 agaaagaagt agaagactca gaattagaag aggtgagtg gcttgggtg cgggctccct
1021 accccactcc ctgcccctgg ctgcccctga ccacactgct tgccctctga ggcacactgg
1081 acagacctgc tggagacctg atcctcagtg tccctacccc ctccctaccc ttttctgtgc
1141 cacctgctgt ggggtccagca ggtttttact tgagtacaat aaaaagtctg agtcaagggt
1201 gccttatggg ggatgctgag gggaggggag gagctagtag cccaaggctc tgccagtcac
1261 ggggcttctc caggggcaca gaggaggcag gaggggcccc tggccctagc acgtgaacag
1321 cttctactct gcctggaaac cccatgcctc agctttcccc tacttgctc tgaactcatg
1381 caattctctg aagcctggga gacttacctt gaaattgaat gcaaatagga caaagaccaa
1441 ggaggatggg gggatgccc ccttccacgg ggccctgtgg ctccaagtc ttaatctcct
1501 ctagtctctt gtctacggag cctccttcaa acccagggaa agaaaagcac ctgccagggt
1561 tgttttctct ctaggatctt ctattgatgc tctgtgaggt ccccaggag ccatgaagct
1621 agggctgggt cctagggcaa tgggactaca gtgtccttgc cctttcttat tctttctgtt
1681 ctttctttct ttttcttttt ttttcttttt ttttcttttg acagagtctc actctgttgc
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1801 gtgattctct tgccctcagc tctcagtag ctaggattac aggtgcccgc caatagccc
1861 agctaatttt tgtattttta gttagagacg ggtttcacca tgttgccag cttgggtctg
1921 aactcctgac ctgaggtgat cctgctgcat cgacctccca aagtactggg attacaggcg
1981 tgagccacca cgctcagcct ctttcttgtt ctatatgtcc atgctctgct ccacttctgc
2041 cccttccactc tgccccacac atcactccag actggccttg tggctcagagc ctggaatgcc
2101 tgggctgctg ggggctgtg gactgcactg ggccagaacc cctgcccctc tcaagactgg
2161 cctgtagcca gcaggtaggt gacttttccc aggcgggctt atcccacct tccccccac
2221 tcactcacct cccttgctg ggtcaattag agaaagcttg tggccaggc atggtggctc
2281 atgctgtgaa tctcagcact ttgggaggcc gaggcgggag gatcatctga gctcaggagt
2341 ttgagaccag cctggccaac atggcaaaac cccgtctcta ctaaaaatac aaaaattaac
2401 cggatgtggt ggtgtgcacc tgtaatccca gctactcggg aggtgaggc agaagaatcg
2461 cttgaaccca ggagggggag gttacagtga gcggagatcg tgctactgca ttgcagcctg
2521 ggcgagagag cgagtctcca tctcacataa aaaaaagaaa aagaaagaaa gcaagcttgt
2581 ctgttgccct gccctgcagg gtggagtcca gagggaggt caggagccta gtgacagctc
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2761 ggtgaaggag gtaatagaga agcttcccca cctcaaccc cacccttcc tctctggagt
2821 tcccagccct gacttttagt cctctccaca ctggaccttc aaaaccttca gggcagagag
2881 cagccctaca ctccctacac cacaccata ctgagccctt gcaggcaagg agagaacagg
2941 tcaggttccc gagagctcag gtgagtgaac cgctgggaatg gccaggggca ccttaccct
3001 gctcagcttg tggctccaac attctagaag ccgaggcctc tgccatccct gccctttccc
3061 atggatattc catttcaatt agacaacca gcctggccgg aacccccctg cgctccttct
3121 tttccttctg gtatttttga gacagggtgt tgctccgtca cccaggctgg agtgtagtgg
3181 gatcctggcc cactgcagcc tcaaattcct aggtgaggc aatcctgcc cctcagcctc

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FIG. 7A

3241 ctgagtagct ggggttacaa gagcaagcca ccacacccag ctaattttga aaaatatttl:
 3301 ttgtagagga gaggtcttgc tttgttgctc aggttggtct caaactccag ggctcaaggg
 3361 atcccttccc gttggcctcc caaggctctg sgattacagg cgggagtcac cctgcctggj
 3421 cccctccttt tgatgagtc tcaagtttca tccccgcacg aggtcttagc ccttggtacc
 3481 agcttagttg ctcaatgggc tgtgtttgtt ctggagccca gatggactgt ggccaggcaa
 3541 gtggatcaca gacctggccg gcctgggagg tttccacatg tgaggggcat gaggggggt
 3601 caaggagggg agcatcgccg agaggagcgc actgggtgga ggctgggggt cccagcagga
 3661 aatgggtgaga caaaggcgcc tggctggcag sgagacagca caggcaggcc ctgagcttc
 3721 ctgagcacag ctggactctc ctggagacct tcacacaccc tgatatctgg gccccgcgt
 3781 acgagggtgc tttacttggc ctgcaactat cccaggccc tgggattttg aacagctctg
 3841 cagggtgactg aaagggtgcs ccaggctggg gaacgacctg gtttcagccc cagccccgc
 3901 actgactgac tttgtgagtg cgggcaagtc actcagctc cctaggcctc agtgacttc
 3961 ctgaaagcaa aaactctgca aaggggcagc tgggtgctgg ctacacactg taatccagc
 4021 actttgggag gctgaggtag acaaatcact tgaggccagg agtcttagac cagcctggj
 4081 aacatgggtga aacccccatct ctactaaaga aaaaaaaaaa ttagctgagc atggttgta
 4141 atgcttgtaa tcccagctac ttgggatgsc gaggcgggag gattgcttga acccaagagg
 4201 tggagtttgc agtgagctga gattgtgcca cactgcactc cagcttgggt gagagtgaga
 4261 cctcatctca aaaaaaaaaa aaaaaagaga gaatccactc tcttggctg: tgtgatggtg
 4321 gtaagggaac gggcctggct ctggcccttg atgcagaaac atggagctga tccaggacac
 4381 cccccgccg ccaactggagt acgtgaaggg ggtcccgtc atcaagtact ttgcagagjc
 4441 actggggccc ctgcagagct tccaagccc acctgatgac ctgctcatca acacctaccc
 4501 caagtctggt aagtgaggag ggccacccac cctctcccag gcggcagtc ccaacttgt
 4561 cagcaaggte gtgcctcag cctgtcacc tctatctcc ctcctctcc acgacaccc
 4621 tgggtgagcc agatactgga catgactac cagggcggcg acctagagaa gtgtaaccgj
 4681 gctcccactc acgtacgggt gcccttctc gaggtcaatg atccagggga accctcaggj
 4741 gcatggctgg gtcctggggg taagggaagt ggaggaagac agggctgggg ctccagctca
 4801 ccagaccttc cctgaccac tactcagggc tggagactct gaaagacaca ccgccccac
 4861 ggctcatcaa gtcacacctg cccctggctc tgctccctca gactctgttg gatcagaagg
 4921 tcaaggtgag gccgggtca atggttcaca cctgtcatcc cagtttgaga ctgaggaggj
 4981 aggatccctt gaaggctgaga gatggagacc agcctgggca acattgctgt agagatgaca
 5041 tcccatctct acaaaaaataa aattaacaac ctggtatggt ggcatagact gttcccagtt
 5101 acttaggagg ctacgcgggg aggactgttt atgcaaatag gaagctgcaa tgagccctga
 5161 tgatctgct gctgcactcc agcctgggca acacagcaaa accatctcta cgaaaaaaaa
 5221 agttccact gactggcaag gaaagccagg aaggggggct caggtgccct ctgagccatg
 5281 tacctgttct tctggaagg cctcctcgct tctgccaggc tcatcacatc ttttttttt
 5341 ttgagacaga gtcttgctct gtcaccctgg ctggagtga gtggcatgat ctgagctcac
 5401 tgcaacctcc gcctccccag ttcaagtgt tctcctgcct cagcctcctg agtagctggg
 5461 attacagctg tctgctacca caccggcta atttttgtat tcttttagt agagacgggg
 5521 tttcaccatg ttggtcaagt ggaactcaaa ctcttgacct tgtgatctc ctgcctcgac
 5581 ctacaaaagt gctggaatta caggcgtgag ccaccgcgc tggccctttt tttttttgag
 5641 acagtctcac tctgttgcc gaggttagag cgcaatcgt tgatctcggt tcaactgcaac
 5701 caccgcctcc tgggttcaag caattctcct gcttcagcct cccaaggagc tgggattaca
 5761 ggtacctgco accacgccc gctaattttg tatttttagt agagatgggg tttcaccatg
 5821 ttggtcaggc tgggtcttgaa ctctgacct cagggtgatct ggcaccttg cctcccaaag
 5881 tgccgggatt agaggcatga gccaccacgc ccagccttca tcacatcttg agagagaca
 5941 ctgtctgct cttgctctga tgagggtctg atgcaaaagga tagtgagtct ctacagtga
 6001 cacttaagaa aggcagcatg tgggtgctca caggtcaggc ggaggagggg gagctgggtg
 6061 ggaccaggca tgccttgctc cagatcagga tatgatggca ttggtgcaga ttatattagt
 6121 atagaatatg gtctcaggaa ccaggcagga ctttggtctc cgagcagggt tcagatccca
 6181 gcttgggcct acctgtgcag tgagatctca agcaagtcag cctctaagcc tcagggtcct
 6241 ccttgccag ttcaacagat gagctggcct ggggtgggct gtgtgggtgat ggtgctgggj
 6301 ctgggtctc tgccttgca ggtggtctat gttggccgaa acccaaagga cgtggcggtc
 6361 tctactacc atttccaccg tatggaaaag gcgcacctg agcctgggac ctgggacagc
 6421 tctctggaaa agttcatggc tggagaaagt gggcttgact ggaggaaagga ggtgtggaag
 6481 ccgaggggtg gtggctataa cgtacagcaa cctgtgtcg gtgccccctg cctgctctc
 6541 tagtctcta cgggtcctgg taccagcacg tgcaggagtg gtgggagctg agccgacccc
 6601 acctgtct ctacctctc tatgaagaa tgaaggaggt gagaccagct gtgatgctc

FIG. 7B

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6661 ccccccattgtg acacctgggg gcaggcacct cacagggacc caccaaggcc acccagcccc
6721 gtccctggggc ggctcccaca gcaagcccgg attcccccac ctacctccct ggcccaggcc
6781 ccccccactgc agccccacct ggcagcaggc tcggcacagc ttctatcttc tgcacctgag
6841 tcagctgcat ggggtggccac ggatcagata cttagtccta ttgcttatcc tcaccaaagj
6901 gtgtgccacc cagggccaca gtcatggaag aagaccatcc cggtcctcac ccataggcgc
6961 caagccctgt tcatgatggg atcacagggc agagatcaat tcattttact cca,lgacta
7021 gggccccagg ggttgaggct ctttgggggt tctaggggaa gtggccagat ccctcttgag
7081 gttagagagg gggacccggt ttgttttgct ccactgagga gccctctgct gctcag,aacc
7141 ccaaaaaggga gattcaaaag atcctggagt ttgtggggcg ctccctgccg gaggagacca
7201 tggacttcat ggttcagcac acgtcggtca aggagatgaa gaagaacct atgaccaact
7261 acaccaccgt cccccaggag ctcatggacc acagcatctc ccccttcatg aggaaacgtg
7321 ggtgctggcc agcacggggg tttggggcg gtgggagcag cagctgcagc ctccccatag
7381 gcacttgggg cctcccctgg gatgagactc cagctttgct ccctgccttc ctccccacg
7441 catggctggg gactggaaga ccaccttcac cgtggcgag aatgagcgt tcgatgcgga
7501 ctatgcggag aagatggcag gctgcagcct cagcttcgcg tctgagctgt gagaggggct
7561 cctggagtca ctgcagagg agtgtgcgaa tctacctga ccaatgggct caagaataaa
7621 gtatgatttt tgagtcaggc acagtggctc atgtctgcaa tcccagcgat ttgggaggtt
7681 gagctggtag gatcacaata ggccacgaat ttgagaccag cctggtaaaa tagtgagacc
7741 tcatctctac aaagatgtaa aaaaattagc cacatgtgct ggcacttacc tgtagtccca
7801 gctacttggg aagcagaggc tggaggatca tttcagccca ggaggttgtg gatacagtga
7861 gttatgacat gcccattcac tacagcctgg atgacaagca agaccctccc tccaaagaaa
7921 ataaagctca attaaaatga aatatgattt gtgttcatgt agagcctgta ttggaaagga
7981 agagaaactc tgagctgaaa gagtgaatgc ccggtggggc cacatatggt cacctctccc
8041 ccagccttca gctcccagg tcaccatata tggggagggg agaaggggtt ggagaagtaa
8101 aaccaggag atgtgtggag gggggatgtc tgtttaatcc cagcacatcc tctgctgtcc
8161 tgccccaaga tgggtggagg cgctcagtc gcccggcagc gtcacttttt cttgggctcc
8221 ttagaagcta ccaggtacct ctgggccaca ctgagatgag gggagtagcc gcctgcatag
8281 gaggtgtctt caaacaggat agtatagtc ctcctggggg ttgtgggggt aggtggccaa
8341 ggaagggtag aggagcaagc ccccggggct ggttgtcaac tcactttgtt ggctggaatt
8401 ggttgtaact tgaccacctc gggcaggatc ccactgctca tcccaa

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FIG. 7C